FLASHTEST

[Product Name]
Canine Screening-Kombination VIII Nucleic Acid Test Kit(Lyophilized)
(CHV, CAV-2, CPIV, Influenza A, CDV, B. bronchiseptica, Mycoplasms
(COV)

[Packag 4 T/box ns]

[Intended Use]
This kit uses fluorescence PCR methods to detect CHV, CAV-2, CPIV.
Influenza A, CDV, B. bronchiseptica, Mycoplasmain in eye, nose, and
throat swab samples, detect CCOV in fresh feces, anal swab samples
This product requires operation with a real time quantitative PCR
instrument and can achieve rapid POCT detection.

Testing Principle]
The test kit uses nucleic acid extraction reagents to extract the nucleic acid (DNA/RNA) from the sample.
Under the action of a high-efficiency reverse transcriptase, cDNA complementary to the RNA template is synthesized in a one-step reactiving RNA as the template.
Under the action of Taq enzyme, the copy number of the specific target fragment is amplified through cycles of high-temperature denaturation, annealing at a moderate temperature, and extension using DNA as the template.

[Contents]			
Item	Quantity	Storage	
PCR master mix	4 pcs	-20°C (Away from light)	
Instructions for use	1 pcs		
Sample buffer	4 pcs	Room Temperature	
Swab	8 pcs	100iii ieiiipeiaiuie	
Biohazard bag	4 pcs		

(Storage conditions and shelf 1. Shelf life: 24 months. 2. Production date and expiration

[Compatible Instruments]
This test kit is compatible with FLASHTEST r fluorescence PCR instrument.

[Sample] Fresh feces, anal s

[Sample Handling]
This project is a double swab project, which requires simultaneous collection of eye and nasopharynx swabs and fecal/anal swabs;
1. Eye, nose, and throat swab: Use a swab to moderately wipe the oral, nasal secretions, or conjunctival secretions.
2. Fresh feces swab: Use a swab to collect an appropriate amount. Anal swab: Wet the swab with dilluent first and then collect the sample.
3. After the swab sample is collected, the two swab heads should be quickly broken and placed in the same storage solution, and then fully shaken to fully dissolve the pathogen on the swab head into the storage solution.

snaken to fully dis solution. 4. add 200 µL of r extraction.

[Specimen storage]
Samples used for nucleic acid extraction and detection should be tested as soon as possible.
Samples to be tested within 24 hours can be stored at 4°C.
Samples to be tested within 24 hours should be stored at -20°C for up to 10 days.
Avoid repeated freezing and thawing of samples.

[Instructions for Uso]
1. Add Elution
1. Add 2D₃L of elution from magnetic bead extraction, to each PCR tube. Close the lid tightly.
1.2 Shake all the liquid to the bottom of the PCR tube. Use the vortex mixe to mix the PCR tube thoroughly, for 5 seconds. After mixing, make sure all liquid is at the bottom of the PCR tube, by shaking the tube again. Onglional: use a small centrifuge for 3 seconds to shift all liquid is to the

2.1 Set the parameters as follows:				
Step	Temperature	Time	Cycle	
1	55°C	3min	1	
2	94°C	30s	1	
3	94°C 58°C	5s 20s	×40	

2.2 The reaction volume is 20µL. Fluorescence channels:				
Channel	FAM	VIC	CY5	ROX
Target (Tube 1)	CDV	Internal reference	CAV-2	CPIV
Target (Tube 2)	Mycoplasma		Influenza A	CHV
Target	CCoV			

3.1 Reference Range:			
Parameter	Reference Range	Result Interpretation	
Internal Control	Ct ≤ 37 and there is a clear exponential amplification curve	Valid	
	Ct > 37 or No Ct	Invalid	
Pathogen	Ct ≤ 37 and there is a clear exponential amplification curve	Positive	
	Ct > 37 or No Ct	Negative	

3.2 Test Result Interpretation				
	Pathogen Result	Internal Control Result	Test Result Interpretation	
	Positive	Valid	Pathogen Positive	
	Negative	Valid	Pathogen Negative	

- [Test Limitations]

 1. The test results of this kit should be comprehensively analyzed in conjunction with other relevant physical examination results and should not be used as the sole basis for diagnosis.

 2. Improper sample collection, transportation, storage, handling, and inadequate laboratory conditions may lead to inaccurate results.

 3. Other unconfirmed interferences or PCR inhibitors may lead to false negative results.

 4. Sequence variations caused by mutations or other factors in the targe gene of the virus being tested may lead to false negative results.

- [Product Performance]

 1. Positive and negative control consistency: The positive and negative control is included in this test kit have been tested with the company's working reference materials, and the positive and negative compliance rates are both 100%.

 2. Sensitivity: limit of detection is 500 copies/mL.

 3. Specificity: This assay does not cross-react with non-target pathoge samples.

 4. Precision: The coefficient of variation (CV, %) of the Ct values for 10 consecutive tests of one strong positive sample and one weak positive sample is \$5%.

- Notes]

 1. Before using a PCR kit, check the lyophilized PCR mix at the bottom of the tube is in good condition (white and clumped). Liquified lyophilized PCR mix can not be used. After opening, it should be used as soon as PCR mix can not be used. After opening, it should be used as soon as soon as a soo